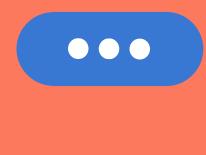
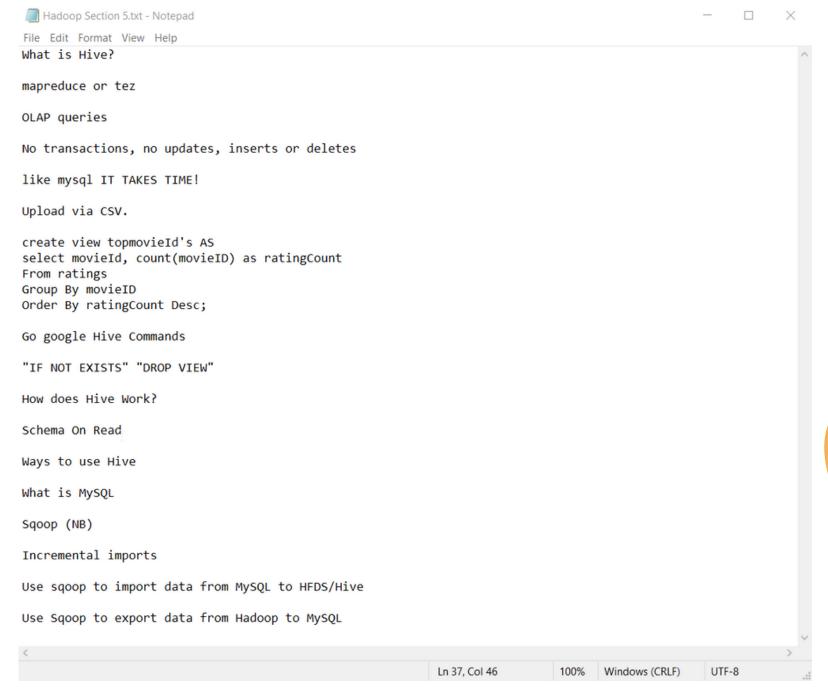


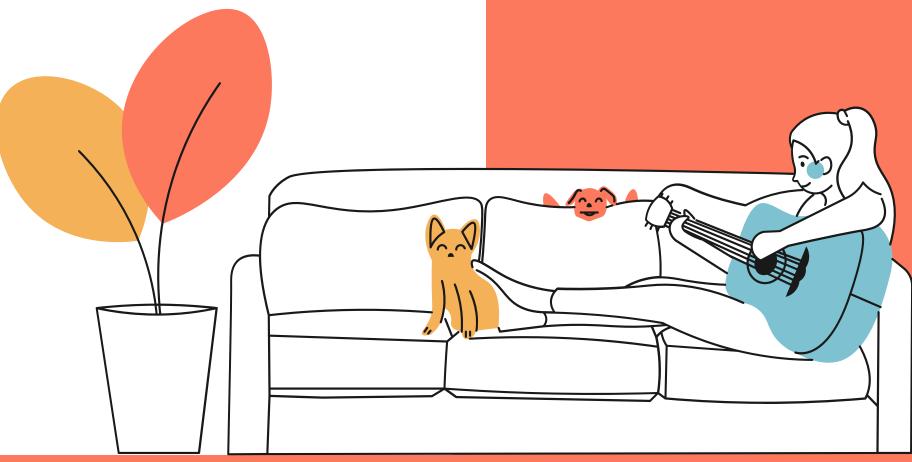
Hadoop Assignmnet 2

Section 5: Using relational data stores with hadoop

My notes:







Apache Hive



What is Hive?

Hive is a data warehouse infrastructure tool to process structured data in Hadoop. It resides on top of Hadoop to summarize Big Data and makes querying and analyzing easy.





Rolling up to country level: SELECT COUNT(visits), SUM(sales) GROUP BY country

- "Slice" by browser
 SELECT COUNT(visits), SUM(sales)
 GROUP BY country
 HAVING browser = "FF"
- Top browsers by sales
 SELECT SUM(sales), COUNT(visits)
 GROUP BY browser
 ORDER BY sales

Country	visits	sales
USA	4	\$50
Canada	1	0

Country	visits	sales
USA	2	\$10
Canada	0	0

Browser	sales	visits
Chrome	\$25	2
Safari	\$15	1
FF	\$10	2

OLAP QUERIES

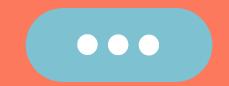
Online analytical processing (OLAP) is a system for performing multi-dimensional analysis at high speeds on large volumes of data.

- No Transactions
- No Updates
- No Deletes



HIVE COMMANDS

DDL Command	Function	
CREATE	It is used to create a table or Database	
SHOW	It is used to show Database, Table, Properties, etc	
ALTER	It is used to make changes to the existing table	
DESCRIBE	It describes the table columns	
TRUNCATE	Used to permanently truncate and delete the rows of table	
DELETE	Deletes the table data, but, can be restored	





Practical

Sqoop is a command-line interface application for transferring data between relational databases and Hadoop.

Use Sqoop to import data from MySQL to HFDS/Hive Use Sqoop to export data from Hadoop to MySQL

```
mysql> exit
Bye
C:\>
```



Thanks for listening

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